File: Tn. Buchanan-Lehrer Landfill Outagamie Co.

GT2

OFFICE MEMO

4400

ATTN: Bob Glebs

FROM: Terrence Gardon

SUBJECT: 20th Street Leachate Seep, City of Kaukauna

On July 15, 1977 Soil Testing Services submitted a report on the leachate seep north of the Lehrer landfill in the City of Kaukauna. The report recommended that additional study be done in the area. On December 5, 1977 Soil Testing submitted the final report on the seep to our office. Following is a summary of the conclusions drawn and the District recommendations concerning the seep.

Ground water flow is in a northeast direction away from Lehrer landfill and toward the leachate seep.

An uncontrolled fill exists beneath the 20th Street area.

Water quality decreases with increasing distance from the Lehrer landfill.

The seep does not originate at the low point of the ravine but down slope from a culvert beneath 20th Street.

If leachate were escaping from the Lehrer landfill the flow would be channelized through the uncontrolled fill. Based upon STS's uniform flow data leachate could not have travelled through the fill material during this time period. (3 years)

In conclusion the evidence indicates that the source of the seep is probably a result of the infiltration of surface water into the uncontrolled fill beneath 20th Street. If leachate were escaping from the Lehrer landfill water quality near the site would show greater contamination. The report seems to indicate that a channelized flow of leachate from Lehrer landfill through the uncontrolled fill is possible although the water quality data does not reflect this. If this channelized theory were the case one would expect the water quality of the seep to be similar to the water quality near the Lehrer fill.

Since the surface drainage off of Lehrer landfill has been diverted to the east toward Kankapot Creek and the depression at the head of the culvert backfilled, the District recommends that no action be taken on the seep until late spring 1978. If the leachate seep still persists at this time a cutoff trench should be dug along the north cells of the Lehrer landfill to determine once and for all if channelization of the leachate through the 20th Street fill is occurring. If channelization is occurring the trench should then be backfilled with clay to create a clay cutoff wall. If channelization is not occurring steps should be taken to prevent the infiltration of surface water into the 20th Street

00747

fill. This may eventually lead to plugging the culvert or removing it altogether. The responsibility for having this work done would have to be decided between the City of Kaukauna and James Lehrer. The District feels that the installation of additional wells or soil borings in the area would not conclusively determine the source of the leachate seep as the cutoff trench would.

Terry Gardon
Terry Gardon

TG:sh

Lehrer
to Buchanan

SOIL TESTING SERVICES OF WISCONSIN, INC.
CONSULTING SOIL & FOUNDATION ENGINEERS
540 LAMBEAU ST., GREEN BAY, WIS. 54303

PHONE: (414) 494-9656

JOHN P. GNAEDINGER, P.E.
CLYDE N. BAKER, JR., P.E.
WILLIAM M. PERPICH, P.E.
WILLIAM C. KWASNY, P.E.

Date January 26, 1976

Department of Natural Resources
812 South Fisk Street
Green Bay, Wisconsin 54304

STS Job No. 6148 A
Structure Lehrer Landfill
Location Kaukauna, Wisconsin

Attention: Mr. Gary Kulibert

Gentlemen:

We are sending
- [x] herewith
- [ ] under separate cover

1 sets of prints of

- [x] Boring Logs and Location Diagram
- [ ] Laboratory Compaction Data
- [ ] Field Compaction Control Data
- [ ] Classification Test Data
- [ ] Consolidation Test Data
- [ ] Triaxial Compression Test Data
- [ ] Sealed Jar Samples
- [ ] Rock Core Samples
- [ ] Caisson Reports
- [ ] Concrete Report #
- [ ]

PRELIMINARY

for the above job.

Remarks cc: Department of Natural Resources
P. O. Box 450
Madison, Wisconsin 53701
Attn: Mr. Bob Glebs

Yours truly,

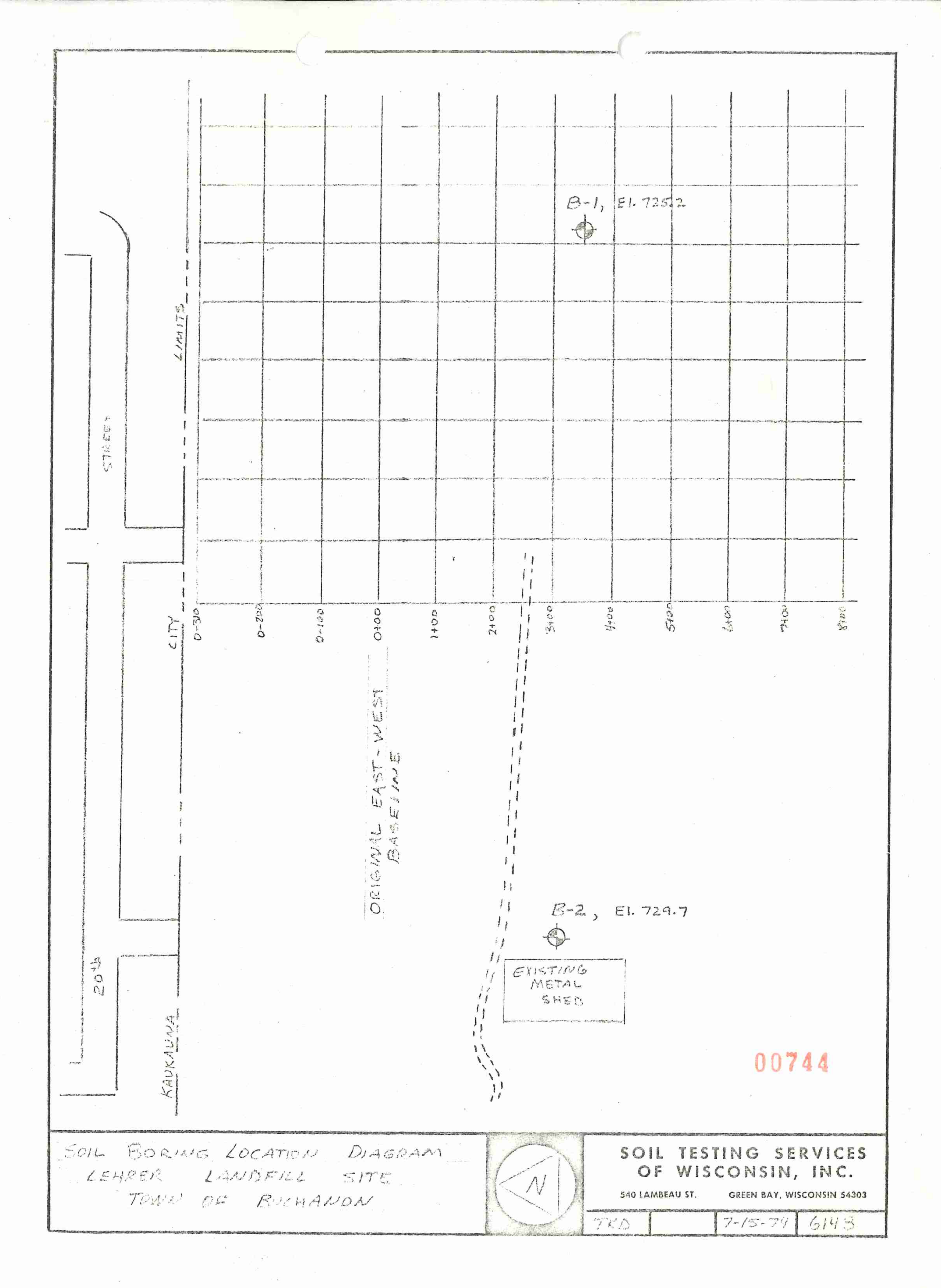
SOIL TESTING SERVICES OF WISCONSIN, INC.

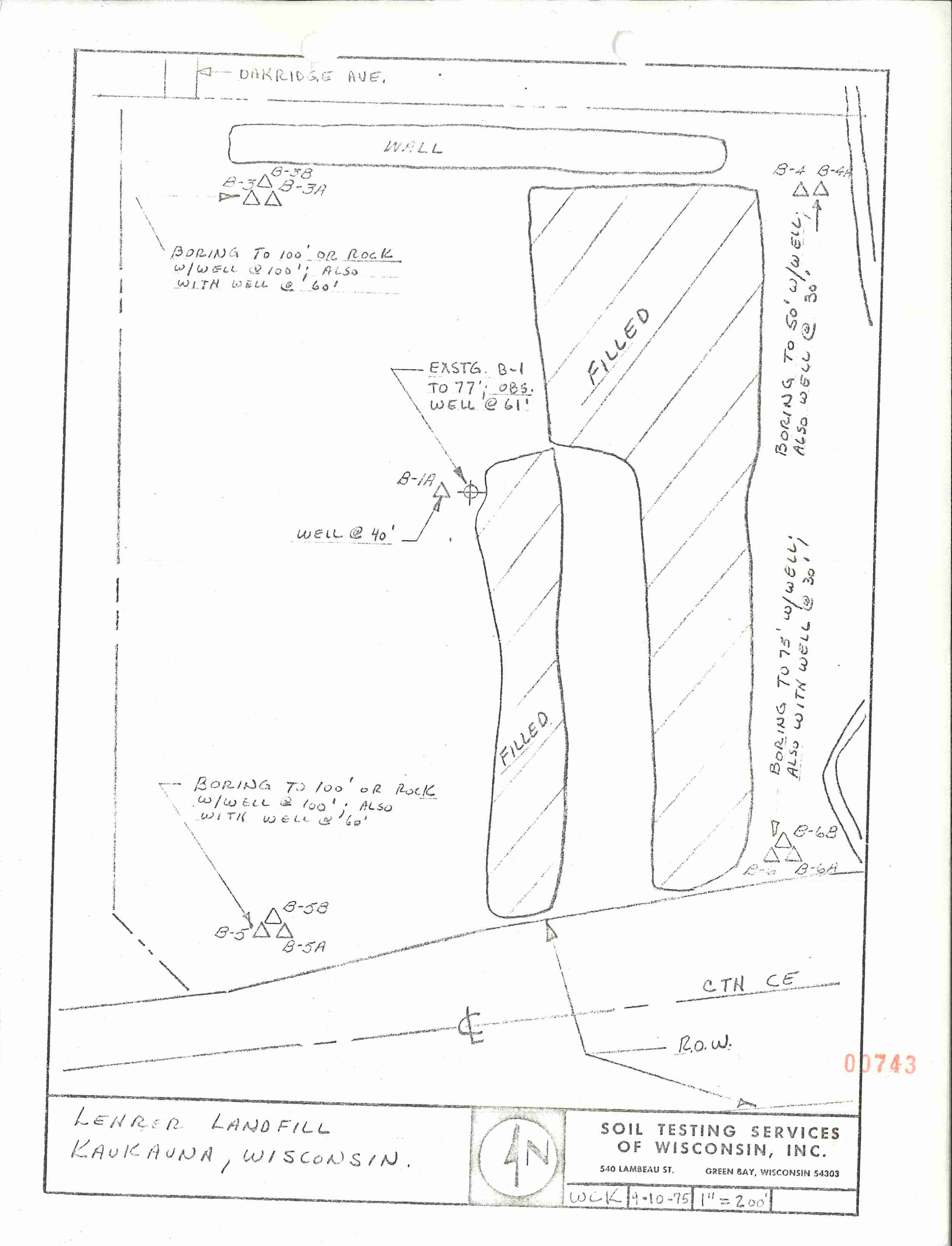
00745

Timothy K. Dahlstrand
Registered Professional Engineer, Wisconsin

FOUNDATION BORINGS AND TESTING   INSPECTION   ENGINEERING ANALYSES AND REPORTS

BBS-82575


B-1, El. 725.2
B-2, El. 729.7
EXISTING METAL SHED
LIMITS
STREET
CITY
20th
KAUKAUNA
ORIGINAL EAST - WEST BASELINE
0-300
0-200
0-100
0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
00744
SOIL BORING LOCATION DIAGRAM
LEHRER LANDFILL SITE
TOWN OF BUCHANON
N
SOIL TESTING SERVICES OF WISCONSIN, INC.
540 LAMBEAU ST.
GREEN BAY, WISCONSIN 54303
TRD
7-15-79
6143



OAKRIDGE AVE.
WALL
B-3 B-3B B-3A
BORING TO 100' OR ROCK W/WELL @ 100'; ALSO WITH WELL @ 60'
B-4 B-4A
BORING TO 50' W/WELL; ALSO WELL @ 30'
FILLED
EXSTG. B-1 TO 77'; OBS. WELL @ 61'
B-1A
WELL @ 40'
FILLED
BORING TO 75' W/WELL; ALSO WITH WELL @ 30'
BORING TO 100' OR ROCK W/WELL @ 100'; ALSO WITH WELL @ 60'
B-6B
B-6 B-6A
B-5B
B-5 B-5A
CTH CE
℄
R.O.W.
00743
LEHRER LANDFILL
KAUKAUNA, WISCONSIN.
N
SOIL TESTING SERVICES OF WISCONSIN, INC.
540 LAMBEAU ST. GREEN BAY, WISCONSIN 54303
WCK 9-10-75 1" = 200'

LOG OF BORING NO. 1

OWNER	ARCHITECT-ENGINEER
Town of Buchanan	Carow Land Surveying
SITE	**PROJECT NAME**
	Lehrer Landfill Site

DEPTH / ELEVATION	SAMPLE NO.	TYPE SAMPLE	DESCRIPTION OF MATERIAL
			SURFACE ELEVATION 725.2
	1	ST	Silty clay, trace sand, gravel cinders, roots-red brown to black-(CL-Fill)
	2	ST	
	3	ST	Silty clay, trace sand, gravel with occasional light brown silt seams-red brown-hard-(CL)
	4	ST	
10	5	ST	
	6	ST	Silty clay, trace sand, gravel trace decayed roots from 20' to 22' and 1/2" to 1" peat pockets-dark brown to brown-tough to hard-(CL-CH)
20	7	ST	
	8	ST	
30	9	ST	
	10	ST	
40	11	ST	
	12	ST	Varved red silty clay (CH) and gray brown silty clay (CL-CH) in 1/8" to 1/4" layers-very tough to tough-(CH & CL-CH)
50	13	ST	
	14	ST	
60	15	ST	
	16	ST	
70	17	ST	
77.0	18	ST	Silty clay, trace sand, gravel with a few irregular red clay seams-gray brown-tough to very tough-(CL-CH)

UNIT DRY WT. LBS./FT.³

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² — 1 2 3 4 5

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT %

STANDARD "N" PENETRATION (BLOWS/FT.) — 10 20 30 40 50

CL-CH, CH (plot labels)

End of Boring

*Calibrated Penetrometer

Note:

1. Well point installed AB as per enclosed drawing with tip at 61.3' below ground surface
2. 2' of 4" casing used
3. Well point protector pipe installed
4. Elevation of top of PVC pipe-726.0

WATER LEVEL OBSERVATIONS		
W.L.	W.S. OR W.D.	
W.L.	B.C.R.	A.C.R.
W.L.	6.5' AB drilled hole to [illegible]	
	[illegible] installed [illegible]	

[illegible] after [illegible]

SOIL TESTING SERVICES OF WIS., INC.
GREEN BAY, WISCONSIN
540 LAMBEAU STREET

BORING STARTED [illegible]-74	
BORING COMPLETED [illegible]-74	
RIG [illegible]	FOREMAN LV
DRAWN JK	APPROVED ID
JOB # [illegible]	SHEET

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

LOG OF BORING NO.

OWNER	ARCHITECT-ENGINEER Harris and Associates
SITE Highway 55 and CTH EE Kaukauna, Wisconsin	PROJECT NAME Proposed Lehrer Landfill

DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	SAMPLE DIST.	RECOVERY	DESCRIPTION OF MATERIAL SURFACE ELEVATION	UNIT DRY WT. LBS./FT. 3	UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5) PLASTIC LIMIT % X — WATER CONTENT % ● — LIQUID LIMIT % △ STANDARD "N" PENETRATION (BLOWS/FT.) ⊗ (10 20 30 40 50)
5							
10		PA					
					No soil sampling for installing well point at 40 feet		
15							
20							
25		PA					
30							
35							
40							
					End of Boring		

00741

WATER LEVEL OBSERVATIONS	
W.L.	None to 40' AB
W.L.	B.C.R. / A.C.R.
W.L.	Bailed to 40.0' from top of PVC. Apparently dry to 40.0'

SOIL TESTING SERVICES
OF WIS., INC.
540 LAMBEAU STREET
GREEN BAY, WIS. 54303

BORING STARTED	12-23-75
BORING COMPLETED	12-23-75
RIG 22	FOREMAN BS
DRAWN KO	APPROVED TKD
JOB # 6148 A	SHEET

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

BBS 41075

LOG OF BORING NO.

OWNER	ARCHITECT-ENGINEER
Town of Buchanan	[illegible] Land Surveying
SITE	**PROJECT NAME**
	Lehrer Landfill Site

SURFACE ELEVATION 729.7

DEPTH / ELEVATION	SAMPLE NO.	TYPE SAMPLE	DESCRIPTION OF MATERIAL
	1	SS	Silty clay, trace to some sand-red brown-hard-(CL)
	2	ST	
	2A	ST	Silty fine sand, trace to some clay lumps, trace gravel-brown (SM-SC)
	3	ST	
	3A	ST	Silty, sandy clay, trace gravel-red brown-hard-(CL-SC)
	4	ST	
10	5	ST	Silty clay, trace sand, gravel with light gray brown silt seams-red brown-hard-(CL)
	6	ST	
20	7	ST	Silty clay, trace sand, gravel with trace decayed roots beginning at 25' to about 38.5'-3/4" peat layer at 36.8'-brown to dark brown-tough to hard-(CL-CH)
	8	ST	
30	9	ST	
	10	ST	
40	11	ST	
	12	ST	
	12A	ST	
50	13	ST	
	14	ST	Varved red silty clay (CH) and gray brown silty clay-(CL-CH) in 1/8" to 1/2" layers-very tough to hard-(CH & CL-CH)
60	15	ST	
	16	ST	
70	17	ST	
	18	ST	
80 / 81.0	19	SS	Clayey, sandy gravel-brown-saturated-very dense-boulders from 79' to 81'-(GP-GC)

End of Boring

Note:
1. Well point installed after boring with tip at 57.0'
2. 2' of 4" Casing Used
3. Well point protector pipe installed
4. Elevation of top of PVC pipe - 731.9

UNIT DRY WT. LBS./FT.³

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² ○ — 1, 2, 3, 4, 5

PLASTIC LIMIT % × — WATER CONTENT % ● — LIQUID LIMIT % △

STANDARD "N" PENETRATION (BLOWS/FT.) ⊗ — 10, 20, 30, 40, 50

CH

CH

*Calibrated Penetrometer

⊗ 104/4" Bouncing

00740

WATER LEVEL OBSERVATIONS		
W.L.	W.S. OR W.D.	
W.L.	B.C.R.	A.C.R.
W.L.	[illegible]	

SOIL TESTING SERVICES
OF WIS., INC.
~~ROUTE NO. [illegible] ROAD~~
GREEN BAY, WISCONSIN
540 LAMBEAU STREET

BORING STARTED 7-10-74	
BORING COMPLETED 7-10-74	
RIG [illegible]	FOREMAN LV
DRAWN [illegible]	APPROVED JD
JOB # 6148	SHEET

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

LOG OF BORING NO. 3

OWNER	ARCHITECT-ENGINEER: Harris and Associates
SITE: Highway 55 and CTH EE, Kaukauna, Wisconsin	PROJECT NAME: Proposed Lehrer Landfill

DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	DESCRIPTION OF MATERIAL (SURFACE ELEVATION)
	1	ST	Reddish brown to brown silty clay with trace to some roots, trace gravel-very tough to hard-(CL)
	2	ST	
	3	ST	
	4	ST	Reddish brown silty clay with trace gravel-tough to hard-(CL)
10	5	ST	
	6	ST	Reddish brown silty clay with trace to some organics-tough to very tough-(CL)
15	7	ST	
20	8	ST	
25	9	ST	
30	10	ST	
35	11	ST	
40	12	ST	
45	13	ST	Varved reddish brown to gray brown clay and silt-tough to very tough-(CL & ML)
50	14	ST	
55	15	ST	
60	16	ST	
65	17	ST	
70	18	ST	Gray to gray brown silty clay with trace gravel-tough-(CL)
75	19	ST	
80	20	ST	
85	21	ST	
88			

Continued

UNIT DRY WT. LBS./FT.³

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² — O — 1 2 3 4 5

PLASTIC LIMIT % X — WATER CONTENT % ● — LIQUID LIMIT % △

STANDARD "N" PENETRATION (BLOWS/FT.) ⊗ — 10 20 30 40 50

00739

WATER LEVEL OBSERVATIONS	
W.L.	26.0' WD
W.L.	B.C.R. A.C.R.
W.L.	Bailed to 96.0' from top of PVC

SOIL TESTING SERVICES OF WIS., INC.
540 LAMBEAU STREET
GREEN BAY, WIS. 54303

BORING STARTED		12-10-75	
BORING COMPLETED		12-10-75	
RIG	22	FOREMAN	BS
DRAWN	KO	APPROVED	TKD
JOB #	6148 A	SHEET	1 of 2

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

BBS 1975

LOG OF BORING NO. 3

OWNER	ARCHITECT-ENGINEER Harris and Associates
SITE Highway 55 and CTH EE Kaukauna, Wisconsin	PROJECT NAME Proposed Lehrer Landfill

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² —O— 1 2 3 4 5

PLASTIC LIMIT % X — WATER CONTENT % ● — LIQUID LIMIT % △

STANDARD "N" PENETRATION (BLOWS/FT.) ⊗ 10 20 30 40 50

DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	SAMPLE DIST.	RECOVERY	DESCRIPTION OF MATERIAL SURFACE ELEVATION	UNIT DRY WT. LBS./FT. 3
					Continued	
88						
90	22	ST			Varved gray to gray brown clay and silt with trace to some gravel-tough to very tough-(CL & ML)	
95	23	ST				
					Gray gravel and clay-(GC)	
100	24	ST			Decomposed limestone rock	
105	Run #1	DB NX			Limestone rock Rec.= % RQD= %	
107					End of Boring	

*Calibrated Penetrometer

Water loss 100% at depth 106.5' to 107.0'
Obstructions from depth 100.0' to 104.0'
Observation well installed @ 101.0'

00738

WATER LEVEL OBSERVATIONS		
W.L.		
W.L.	B.C.R.	A.C.R.
W.L.	Cave in @ 101.0' AB	

SOIL TESTING SERVICES
OF WIS., INC.
540 LAMBEAU STREET
GREEN BAY, WIS. 54303

BORING STARTED 12-10-75	
BORING COMPLETED 12-10-75	
RIG 22	FOREMAN BS
DRAWN KO	APPROVED TKD
JOB # 6148 A	SHEET 2 of 2

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

LOG OF BORING NO. 3-A

OWNER	ARCHITECT-ENGINEER Harris and Associates
SITE Highway 55 and CTH EE Kaukauna, Wisconsin	PROJECT NAME Proposed Lehrer Landfill

DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	SAMPLE DIST.	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. 3	UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5) / PLASTIC LIMIT % X — WATER CONTENT % ● — LIQUID LIMIT % △ / STANDARD "N" PENETRATION (BLOWS/FT.) ⊗ (10 20 30 40 50)
					SURFACE ELEVATION		
5							
10							
15							
20					No soil sampling-installed well point at 70.0 feet		
25							
30							
35							
40							
45							
50							
55							
60							
65							
70							
					End of Boring		

00737

WATER LEVEL OBSERVATIONS		
W.L.	23' WD	
W.L.	B.C.R.	A.C.R.
W.L.	Bailed to 69.0' from top of PVC	

SOIL TESTING SERVICES
OF WIS., INC.
540 LAMBEAU STREET
GREEN BAY, WIS. 54303

BORING STARTED	12-15-75
BORING COMPLETED	12-15-75
RIG 22	FOREMAN BS
DRAWN KO	APPROVED TKD
JOB # 6148 A	SHEET

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

BBS 1071

LOG OF BORING NO. 3

OWNER	ARCHITECT-ENGINEER Harris and Associates
SITE Highway 55 and CTH EE Kaukauna, Wisconsin	PROJECT NAME Proposed Lehrer Landfill

DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	SAMPLE DIST.	RECOVERY	DESCRIPTION OF MATERIAL SURFACE ELEVATION	UNIT DRY WT. LBS./FT.³	UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5) PLASTIC LIMIT % X — WATER CONTENT % ● — LIQUID LIMIT % △ STANDARD "N" PENETRATION (BLOWS/FT.) ⊗ (10 20 30 40 50)
5		PA					
10							
15							
20					No soil sampling-installed well point at 45 feet		
25		PA					
30							
35							
40							
45							
					End of Boring		

00736

WATER LEVEL OBSERVATIONS		
W.L.	23' WD	
W.L.	B.C.R.	A.C.R.
W.L.	Bailed to 46.0'	

SOIL TESTING SERVICES
OF WIS., INC.
540 LAMBEAU STREET
GREEN BAY, WIS. 54303

BORING STARTED	
BORING COMPLETED	
RIG	FOREMAN
DRAWN	APPROVED
JOB # 6148 A	SHEET

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

BBS 41075

LOG OF BORING NO.

OWNER

ARCHITECT-ENGINEER
Harris and Associates

SITE Highway 55 and CTH EE
Kaukauna, Wisconsin

PROJECT NAME
Proposed Lehrer Landfill

DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	DESCRIPTION OF MATERIAL (SURFACE ELEVATION)	UNIT DRY WT. LBS./FT.3
	1 / 1A	ST / ST	Red brown sandy clayey topsoil-with trace gravel and roots-very tough-(SC)	
	2	ST	Red brown silty clay-trace to some sand and gravel-stiff to very tough-(CL)	
	3	ST		
	4	ST		
10	5	ST	Red brown silty clay with trace to some gravel-tough to very tough-(CL)	
	6	ST		
	7	ST		
20				
	8	ST	Red brown silty clay with trace to some gravel, cobbles, and boulders-tough to very tough-(GC)	
30	9	ST		
	10	ST		
40	11	ST		
	12	ST		
50				132
52.0	13	ST		
			End of Boring	

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² ○ — 1, 2, 3, 4, 5

PLASTIC LIMIT % X — WATER CONTENT % ● — LIQUID LIMIT % △

STANDARD "N" PENETRATION (BLOWS/FT.) ⊗ — 10, 20, 30, 40, 50

*Calibrated Penetrometer

Boulders or obstructions from 18' to 22'
Boulders likely from 18' to end of boring
Observation well installed

00735

WATER LEVEL OBSERVATIONS		
W.L.		
W.L.	B.C.R.	A.C.R.
W.L.	0.5' AB	
	Bailed to 50.0' from top of PVC	

SOIL TESTING SERVICES OF WIS., INC.
540 LAMBEAU STREET
GREEN BAY, WIS. 54303

BORING STARTED	12-31-75		
BORING COMPLETED	1-2-76		
RIG	22	FOREMAN	BS
DRAWN	KO	APPROVED	TKD
JOB #	6148 A	SHEET	

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

LOG OF BORING NO. 4-A

OWNER	ARCHITECT-ENGINEER Harris and Associates
SITE Highway 55 and CTH EE Kaukauna, Wisconsin	PROJECT NAME Proposed Lehrer Landfill

DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	SAMPLE DIST.	RECOVERY	DESCRIPTION OF MATERIAL SURFACE ELEVATION	UNIT DRY WT. LBS./FT. 3	UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (O) 1 2 3 4 5 PLASTIC LIMIT % (X) — WATER CONTENT % (●) — LIQUID LIMIT % (△) STANDARD "N" PENETRATION (BLOWS/FT.) (⊗) 10 20 30 40 50
5, 10, 15, 20, 25, 30					No samples - well point installed at 30.0 feet		
					End of Boring		

00734

WATER LEVEL OBSERVATIONS		
W.L.		
W.L.	B.C.R.	A.C.R.
W.L.	0.5' AB	
	Bailed to 31.0'	

SOIL TESTING SERVICES
OF WIS., INC.
540 LAMBEAU STREET
GREEN BAY, WIS. 54303

BORING STARTED	
BORING COMPLETED	
RIG	FOREMAN
DRAWN	APPROVED
JOB # 6148 A	SHEET

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

LOG OF BORING NO. 5

OWNER	ARCHITECT-ENGINEER: Harris and Associates
SITE: Highway 55 and CTH EE, Kaukauna, Wisconsin	PROJECT NAME: Proposed Lehrer Landfill

SURFACE ELEVATION

Depth	Sample No.	Type Sample	Description of Material	Unit Dry Wt. LBS./FT.3
	1	ST	Brown sandy topsoil-hard-(SC)	
	1A	ST		
	2	ST	Brown silty clay with trace to some sand and gravel-very tough to hard-(CL)	
5	3	ST		
	4	ST	Red brown silty clay with trace gravel-tough-(CL)	112
10	5	ST		
	6	ST	Brown clayey silt with trace sand and gravel-hard-(ML)	113
15	7	ST	Brown silty clay with trace gravel-soft to tough-(CL-CH)	118
20	8	ST		
25	9	ST	Red brown silty clay with trace gravel and woody fibers-very tough to hard-(CL)	106
30	10	ST		
35	11	ST		
40	12	ST	Red brown silty clay with occasional silt seams-hard-(CL)	
45	13	ST		
50	14	ST	Varved red brown clay and gray brown silt 1/4" to 1.0" in thickness-tough to very tough-(CL & ML)	
55	15	ST		
60	16	ST		
65	17	ST		
70	18	ST		
75	19	ST		
80	20	ST		
85	21	ST	Gray brown silty clay with trace to some gravel and occasional seams of red clay-tough-(CL)	
90 / 92	22	ST		
			End of Boring Observation well installed at 90.0'	

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1, 2, 3, 4, 5)
PLASTIC LIMIT % X — WATER CONTENT % ● — LIQUID LIMIT % △
STANDARD "N" PENETRATION (BLOWS/FT.) ⊗ (10, 20, 30, 40, 50)

*Calibrated Penetrometer

WATER LEVEL OBSERVATIONS		
W.L.		
W.L.	B.C.R.	A.C.R.
W.L.		

SOIL TESTING SERVICES OF WIS., INC.
540 LAMBEAU STREET
GREEN BAY, WIS. 54303

BORING STARTED	12-18-75		
BORING COMPLETED	12-22-75		
RIG	22	FOREMAN	BS
DRAWN	KO	APPROVED	TKD
JOB #	6148 A	SHEET	1 of 1

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

BBS 1075

LOG OF BORING NO. 5-A

OWNER	ARCHITECT-ENGINEER Harris and Associates
SITE Highway 55 and CTH EE Kaukauna, Wisconsin	PROJECT NAME Proposed Lehrer Landfill

DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	SAMPLE DIST.	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. 3	UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5) / PLASTIC LIMIT % X — WATER CONTENT % ● — LIQUID LIMIT % △ / STANDARD "N" PENETRATION (BLOWS/FT.) ⊗ (10 20 30 40 50)
					SURFACE ELEVATION		
5							
10		PA			No soil sampling well point installed at 70.0 feet		
15							
20							
25							
30							
35							
40		FT					
45							
50							
55							
60							
65							
70					End of Boring Obstruction at 66.0 feet		

00732

WATER LEVEL OBSERVATIONS		
W.L.	19.0' WD	
W.L.	B.C.R.	A.C.R.
W.L.	63.1' after bailing	

SOIL TESTING SERVICES
OF WIS., INC.
540 LAMBEAU STREET
GREEN BAY, WIS. 54303

BORING STARTED		12-16-75	
BORING COMPLETED		12-18-75	
RIG	22	FOREMAN	BS
DRAWN	KO	APPROVED	TKD
JOB #	6148 A	SHEET	

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

BBS 1075

LOG OF BORING NO. 5

OWNER	ARCHITECT-ENGINEER Harris and Associates
SITE Highway 55 and CTH EE Kaukauna, Wisconsin	PROJECT NAME Proposed Lehrer Landfill

DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	SAMPLE DIST.	RECOVERY	DESCRIPTION OF MATERIAL / SURFACE ELEVATION	UNIT DRY WT. LBS./FT. 3	UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5) / PLASTIC LIMIT % X, WATER CONTENT % ●, LIQUID LIMIT % △ / STANDARD "N" PENETRATION (BLOWS/FT.) ⊗ (10 20 30 40 50)
5							
10							
15		FT					
20					No soil sampling-well point installed at 50.0 feet		
25							
30							
35							
40							
45							
50							
					End of Boring		

00731

WATER LEVEL OBSERVATIONS		
W.L.	49.8' AB	
W.L.	B.C.R.	A.C.R.
W.L.	Bailed to 49.8' from top of PVC	

SOIL TESTING SERVICES
OF WIS., INC.
540 LAMBEAU STREET
GREEN BAY, WIS. 54303

BORING STARTED			
BORING COMPLETED			
RIG	22	FOREMAN	
DRAWN	KO	APPROVED	TKD
JOB #	6148 A	SHEET	

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

LOG OF BORING NO. 6

OWNER	ARCHITECT-ENGINEER: Harris and Associates
SITE: Highway 55 and CTH EE, Kaukauna, Wisconsin	PROJECT NAME: Proposed Lehrer Landfill

DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT.³
			SURFACE ELEVATION	
	1	ST	Red brown to brown silty clay with trace to some sand and gravel and with trace to some roots, woody fibers and black peaty pockets-possibly fill material-soft to very tough-(CL)	
	2	ST		
5	3	ST		
	4	ST		
10	5	ST		
	6	ST		
15	7	ST	Irregularly varved red brown clay and gray brown silt with trace gravel-tough-(CL-ML)	
20	8	ST		
25	9	ST		
30	10	ST	Brown silty clay with trace to some gravel in the form of limestone pieces-trace to some cobbles and boulders-tough-(CL)	
35	11	ST		
40	12	ST		
45	13	SS		
50	14	SS	Brown silty clay with trace to some sand, gravel, cobbles and boulders-hard-(GC)	
55	15	SS		
60	16	SS	Weathered broken limestone	
		RB		
65.5			End of Boring 61' of NX casing Boulders or obstructions from 43' to end of boring Observation well installed at 64.5'	

Chart: UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1, 2, 3, 4, 5); PLASTIC LIMIT % / WATER CONTENT % / LIQUID LIMIT %; STANDARD "N" PENETRATION (BLOWS/FT.) (10, 20, 30, 40, 50)

REFUSAL, BOULDER

31

75/6"

80/6"

100/6"

*Calibrated Penetrometer

00730

WATER LEVEL OBSERVATIONS			
W.L.	10.0' WS		
W.L.	5.0'	B.C.R. 5.0'	A.C.R.
W.L.	27.0' AB		
Bailed to 27.0' from top of PVC			

SOIL TESTING SERVICES OF WIS., INC.
540 LAMBEAU STREET
GREEN BAY, WIS. 54303

BORING STARTED	12-23-75		
BORING COMPLETED	12-23-75		
RIG	22	FOREMAN	BS
DRAWN	KO	APPROVED	TKD
JOB #	6148 A	SHEET	

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

BBS 1075

LOG OF BORING NO. [illegible]A

OWNER	ARCHITECT-ENGINEER Harris and Associates
SITE Highway 55 and CTH EE Kaukauna, Wisconsin	PROJECT NAME Proposed Lehrer Landfill

DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	SAMPLE DIST.	RECOVERY	DESCRIPTION OF MATERIAL SURFACE ELEVATION	UNIT DRY WT. LBS./FT. 3	UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² (1 2 3 4 5) PLASTIC LIMIT % X — WATER CONTENT % ● — LIQUID LIMIT % △ STANDARD "N" PENETRATION (BLOWS/FT.) ⊗ (10 20 30 40 50)
5							
10		RB					
15							
20					No samples taken-well point installed at 51.0 feet		
25							
30							
35		RB					
40							
45							
50							
51.0					End of Boring		

00729

WATER LEVEL OBSERVATIONS		
W.L.	0.5' AB	
W.L.	B.C.R.	A.C.R.
W.L.		

SOIL TESTING SERVICES
OF WIS., INC.
540 LAMBEAU STREET
GREEN BAY, WIS. 54303

BORING STARTED 12-31-75	
BORING COMPLETED 12-31-75	
RIG 22	FOREMAN BS
DRAWN KO	APPROVED TKD
JOB # 6148 A	SHEET

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

BBS 41075

LOG OF BORING NO. 6-

OWNER	ARCHITECT-ENGINEER Harris and Associates
SITE Highway 55 and CTH EE Kaukauna, Wisconsin	PROJECT NAME Proposed Lehrer Landfill

DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	SAMPLE DIST.	RECOVERY	DESCRIPTION OF MATERIAL / SURFACE ELEVATION	UNIT DRY WT. LBS./FT.3	UNCONFINED COMPRESSIVE STRENGTH TONS/FT.2 (1 2 3 4 5); PLASTIC LIMIT % X — WATER CONTENT % ● — LIQUID LIMIT % △; STANDARD "N" PENETRATION (BLOWS/FT.) ⊗ (10 20 30 40 50)
5							
10					No samples taken-well point installed at 36.0 feet		
15		RB					
20							
25							
30							
35							
36.0					End of Boring PVC broken off at ground		

00728

WATER LEVEL OBSERVATIONS		
W.L.	0.5' AB	
W.L.	B.C.R.	A.C.R.
W.L.	34.4' after bailing	
	Bailed to 34.4' from top of PVC	

SOIL TESTING SERVICES
OF WIS., INC.
540 LAMBEAU STREET
GREEN BAY, WIS. 54303

BORING STARTED 12-30-75	
BORING COMPLETED 12-30-75	
RIG 22	FOREMAN BS
DRAWN KO	APPROVED TKD
JOB # 6148 A	SHEET

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

RRS 41075